Third Term Examination-2075 Gandaki Boarding School (Regional School)

Subject: Computer Science Full Marks: 50 Class: 10 **Time: 1:30 hrs** Pass Marks: 20

(Group 'A') Computer Fundamental (22 marks)

1. Answer the following questions:

(5x2=10)

- a. What is Transmission Media? List any two differences between Star and Bus topology.
- b. What is Intranet? List the services provided by the Internet.
- c. What is multimedia technology? List any four application areas of multimedia.
- d. Define software security. List out any four measures to protect computer
- e. Define Antivirus. Write down any two examples of antivirus software.

2. a. Convert as instructed:

(2x1=2)

- (i) (305)₈ into decimal
- (ii) (CAB)₁₆ into binary

b. Perform binary operation.

(2x1=2)

- (i) 101*11+101
- (ii) Divide 101101 by 101

3. Match the following pairs:

(4x0.5=2)

Group A Group B Network Protocol a Microwave b. UPS Unguided transmission media c. AppleTalk Power protection device d. Cyber ethics Android OS Code of conduct for computer users

4. Select the correct answer:

(4x0.5=2)

- a. Which is not the network hardware component?
- (i) Switch (ii) Repeater
- (iii) Router (iv) Windows NT
- b. In which communication media does data travel in the form of light signal?
- (i) Telephone wire (ii) Fiber optic (iii) Coaxial Cable (iv)Twisted pair cable

- c. Which is not the protocol?
- (i) POP (ii) IPX/SPX
- (iii) NETBIOS
- (iv) Client/Server

- d. Which is the Not a virus program?
- (i) I Love You (ii) Trojan
- (iii) Rocket
- (iv) Logic Bomb
- 5. Give appropriate technical terms of the following:

(4x0.5=2)

- a. The process of buying and selling products and services online
- b. The cabling structure of LAN.
- c. Group of computers that can share resource.
- d. One way communication mode.
- 6. Write full forms:

(4x0.5=2)

- a) UPS
- (b) VOIP
- (c) WLAN
- (d) ATM

(Group 'B') Database (10 marks)

- 7. Answer the following questions.
 - a. What is a database and DBMS? b. What is data type? List any four types of data used in Microsoft Access?
 - c. Define Query. List any two uses of form.
- 8. Select the correct answer:

(4x0.5=2)

(3x2=6)

- (a) In MS Access we enter data using
- (i) Form
- (ii) Report
- (iii) Table
- (iv) Both (i) &(iii)
- (b) The extension of database file in Access is
- (i) .dbf
- (ii) .accdb
- (iii) .accbd
- (iv) .dbm

- (c) uniquely identifies any field.
- (i) Indexing
- (ii) Memo Field
- (iii) Primary Key
- (iv) Query
- (d) The objects of Access that stores the data is known as
- (i) Query
- (ii) Table

- (iii) Form
- (iv) Report

9. Match the following pairs:

(4x0.5=2)

Group A

a. MySql

iOS

b. Indexing data

To store picture and video

OLE Object

RDBMS

Group B

d. Caption

Searching fast

2048 characters

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(Group 'C') programming (18 marks)
10. a. What is a local and global variable?
                                                                 (1)
b. Write any one difference between function and sub procedure.
                                                                 (1)
c. Write down the function of the following statements:
                                                                 (1)
       (i) RMDIR
                     (ii) EOF()
11. Write the output of the given program:
                                                                 (2)
DECLARE SUB Series ()
CALL Series
END
SUB Series ()
N=2
C=1
WHILE C<=10
    PRINT N
    N=N+C
   C=C+1
WEND
END SUB
12.Re-write the given program after correcting the bugs:
                                                                 (2)
REM To display all the records from emp.dat file
OPEN "emp.dat" FOR APPEND AS#1
WHILE NOT EOF()
INPUT"Enter name ";N$
INPUT"Enter Address"; A$
INPUT 1,N$,A$
PRINT N$,A$
LOOP
CLOSE #1
END
13. Study the following program and answer the given questions:
                                                           (2x1=2)
DECLARE FUNCTION Result(X,Y)
CLS
A = 10
B = 15
Z=Result(A,B)
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FUNCTION Result(X,Y)
R1=Y MOD X
R2=X MOD Y
Result=R1+R2
END FUNCTION

(a) How many arguments and parameters are used in the above program?
(b) What is the output of the above program?

14. a. Write a program to calculate and display area of a triangle using FUNCTION..END FUNCTION. (Hints: Area =1/2*base*height)

(b) Write a program to check whether the given word is 'palindrome or not' using SUB....END SUB.

(c) Write a program to create a sequential data file "marks.dat" to store Name and
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Mark obtained in Computer, Math and Science subjects for some student.(3)

PRINT Z